PAKISTAN ACADEMY

TARGET PAPER

XII - ZOOLOGY

FOR ONLY SUPPLEMENTARY PAPER [OBFEBRUARY]

کی بی کلاس کے Supply or Annual کارکیٹ دیرر دیکھنے کا لغ ایا واٹس اب لیر ما سے اس SAVE والین

animals

kidneys

for health.

fever.

Homeostasis

Short Que stion:

- 1- How does as maregulation take place in trout fish? (Hint Fresh water)
- 2- Write a note on lithotripsy
- How does osmoregulation take place in marine bony fish?
- Write a note on two different types of nephron related to adaptation inkidney 5- Why hypothalamus is called the thermostat of the body?
- 6- Define dialysis. White any one method of
- 7- Describe os moregulation in terrestrial

Long Questions

- 1- Explain the regulatory functions of the human kidneyand draw a labelled diagram of nephron2- Explain the structure of nephron and write regulatory functions of kidney
- 3- How do homiotherm maintain their body temperature during hot and cold seasons? OR explainthermoregulation in mammab.
- 4- Discuss the homeostatic function of live r

Support and Movement

Short Questions

- 1- Write a note on smooth muscle OR cardisc muscles
- 2- Write four differences betweenbones and cartilage
- 3- How does hydrostatic skeleton help the earthworm in locomoton?
- 4- Differentiate between skeletal musdeand smooth muscles
- 5- Write four functions of skeleton6- Write a noteon exaskeleton
- 7- Describe locomoton in elytish

8- Describe locomotion amoeba

9- Why the cardiac muscles are striated and involuntaryin nature.

State herole of hormones in the working of

Why do freshwater fishes excrete dilute

urine and marine fishes excrete concentrated urine ?10- Why moderate form of fever is good

11- Explain the role of brain in regulating

12- Write any fourfunctions of liver.

13- Write a note on dialysis

- 10- What causes abnormal muscle contraction in sportsman?
- 11- Define Joints. Name different types of ioints
- 12- Discuss the abnormal muscle contraction
- Differentiate between types of muscles
- 14-Write a note on skeletal system deformities

onn Quedions

- Describe locomotion in jellyfish, starfish and earth worm.
- Define muscles and describe in detail structure of skeletal musdes. 3- Describe the mechanism of contraction of skeletal muscles.

Coordination and control

Short Questions

- 1- Why is nervous coordination called the quickest way of communication within the body?
- 2- How does pancreas regulate the amount of blood sugar?
- 3- Which hormone is released from adrenal medulia and why is it called emergency homone?
- 4- Write four difference between nervous and chemicalcoordination
- Why do chidarians have diffused nervous system?
- Differentiate between diffused nervous system and centralized nervoussystem
- 7. Write a note on reflex action
 - Differentiate between parasympathetic

and sympatheticnersous system

- 9- Write a note on thymus gland
- 10- Differentiate between autonomic and somatic nervous system
- 11- Describe the posterior lobe of pituitary gland
- 11 Define neuron and five the names of different types of neuron with their function
- 13- Draw nest and labeled diagram of neuron
- 14- Write a note on thyroid gland
- 15 Describe peripheral nervous system
- 16 Why nervous coordination is quick as compared to the chemical coordination?
- 17- Discuss neuro degenerative disorders

ong Questions Describe the structure and function of different parts of human brain (diagram is not required)

- 2- Draw a chart to show structure of brain along with its functions
- 2- Define endocrine glands. Describe piturbay gland as master gland
- 4- Describe in detail Central nervous system in man (Diagram is not require d).
- 5- Write a note on animal behavior (discus adaptive behavior)

Reproduction

Short Questions:

- 1- Draw labelled diagrams of different stages of apermatogenesis OR Opgenesis
- 2- Why is parthenogenesis common in anta?
- 3- What is genetic monotony? In which type of reproduction laid found?
- 4. Write a note on a permatogenesis DR eogenesis
- 5- Write a note on pestrose cycle

6- What is algorificance of sexual reproduction?

- 7- Name the various type of Aserual reproduction in animal with examples 8- Why I don't call twins are similar but fraceinal twins are not.
- 9- How hermaphroditic condition is advantageous for the parasitic mode of life?

6- Write a note on a ging or developmental

7- Discuss the role of cytoplasm or nucleus in

4- Discuss any two evidence for Evolution

6- Define hardy and Weinberg principle

5- Discuss weismenntheory

disprdors

development

Long Chestlons

- 1- Define menstruction. Describe its various phases and the changes take place in each phase withdiagrams.
- 2. Explain the process of Spermatogenesis or Dogenesis (with diagrams) 3. Draw the diagram of male reproductive system of female reproductive system.
- Discuss the sexually transmitted disease.

Growth and Development

Short Questions

- 1- How does abnormal development take place in man?
- 2- Why die avage in birds called meroblastic and
- 3- Define aging. Give It cames
- 4- What is abnormal development? Give any three examples
 - 5- Write a note on regeneration

Long guestions

- 1- Define development. Explain process of gastrulation in a chick up to the formation of three germinal layers. Draw the latelled diagrams.
- 2- Write a note on embryonic induction

Biotechnology

Short Questions

- 1. Why DNA fingerprinting is performed?
- State the significance of a net ically engineered bacteria.
- 3- Why plasmid is used to Recombinant DNAechnology?
- 4- Write down the basic steps of Recombinant DNAtechnology5-What is assure culture?
- 5- Discuss the impact of blotschnology in human life

Lang Questions

- 1- Describe the Recombinant DNAtechnology. Draw labelled diagrams of every steps
- Z- Write a note on DNA linger printing
- 3- Explain the process of liesus culture or cloning

Evolution

Short Questions:

- 1- State the objectom on Lamarck's theory
- 2- Write any four objections on Danvin's theory of natural selection.
- 3- Daline evolution and theory of special creation

end Questions

- 1. Define evolution, Discuss Lamarck's theory and the objections raised against it.
- Describe the Darwin theory of natural selection and the objections raised against it.

Man and his environment

Short Dyestions

- 1. How is a more layer being depleted?
- 2. Write a note in acidrain
- Write a note on eutrophication or algal bloom. 4. Name any four viral disease with cause and modes of transmission.
- 5- Define renewable and non-renewable resources and examples

Lana Opertion

- 1. What is pollution? Describe air pollution
- 2- Write a note on tensivable and nonrenewable sources.